

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/00338

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl' C12N11/00, C12P21/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' C12N11/00, C12P21/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

BIOSIS (DIALOG), CA (STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1111385 A2 . (NICHIREI KABUSHIKI KAISHA), 27 June, 2001 (27.06.01), & JP 2001-181299 A & AU 200072184 A & NO 200006481 A & US 2001-0005583 A1 & CA 2328805 A & CN 1300942 A & ZA 200007776 A & KR 2001067472 A & NZ 508945 A	1-3
A	US 4224125 A (MATSUSHITA ELEC IND CO., LTD.), 23 September, 1980 (23.09.80), & JP 54-50396 A	1-3
A	JP 2002-272453 A (Japan Science and Technology Corp.), 24 September, 2002 (24.09.02), (Family: none)	4

 Further documents are listed in the continuation of Box C. See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

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- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
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Date of the actual completion of the international search
21 April, 2003 (21.04.03)Date of mailing of the international search report
13 May, 2003 (13.05.03)Name and mailing address of the ISA/
Japanese Patent Office

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 881287 A2 (JAPAN SCI & TECHNOLOGY CORP.), 02 December, 1998 (02.12.98), & JP 10-327850 A & CN 1203273 A & US 2001/0024828 A1	1-3